#14

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Docket No.: 10438-0001-PCT

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

RE: Application Serial No.: 09/380,080
Applicants: Lars PERSSON
Filing Date: November 15, 1999
For: HEAT EXCHANGER WITH LEAKAGE VENT
Group Art Unit: 3743
Examiner: Unassigned

SIR:

Attached hereto for filing are the following papers:

- **Renewed Petition Under 37 CFR § 1.181, Decision Dismissing Petition**
- **Date-stamped Filing Receipt (October 31, 2001), PTO Cover Letter,**
- **Request for Withdrawal of Holding of Abandonment, Attorney Declaration, Notice of Abandonment, Date-stamped Filing Receipt (April 13, 2001), Fee Transmittal, Amendment, Letter Requesting Approval of Drawing Changes**

Our credit card payment form in the amount of **$0.00** is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

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Registration No. 46,340

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Respectfully submitted,

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Docket No. 10438-0001-6-PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Lars PERSSON
GAU: 3743
SERIAL NUMBER: 09/380,080
EXAMINER: Unassigned
FILING DATE: November 15, 1999
FOR: HEAT EXCHANGER WITH LEAKAGE VENT

RENEWED PETITION UNDER 37 CFR § 1.181

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

In response to the Decision Dismissing Petition mailed on January 20, 2006, withdrawal of the abandonment of the above-identified application is respectfully requested.

Although this petition is filed within two (2) days after the expiration of the two (2) month time period set forth in the Decision, it is respectfully requested that this petition be accepted and treated on the merits, and not be dismissed as having been untimely filed, in view of the following circumstances and discussion.

It is respectfully submitted that 37 CFR § 1.181(f) states that a petition that is not filed within the specified two month time period *may* be dismissed as untimely, and thus dismissal of this petition is not required by the rules. Rather, it is within the Director's discretion to accept the petition. It is respectfully submitted that the petition, which was due on March 20, 2006, was filed on March 22, 2006. Due to a clerical error in docketing the due date for the petition, the attorney in charge of this matter was not made aware of the due date for filing this petition until March 21, 2006. After becoming aware of the due date, the attorney diligently took appropriate action to file the petition as soon as possible.

It is further respectfully submitted that MPEP § 711.03(c)(I)(C)(2.) is relevant to the Director's determination as to whether to accept the petition. It is submitted that none of the situations discussed in this section are applicable in this application, and therefore this section does not preclude the Director's acceptance of the petition as timely filed.

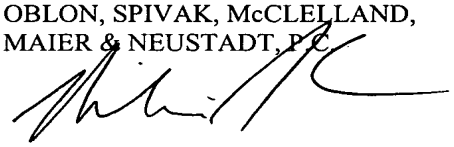
It is also respectfully submitted that the Decision recognizes that the papers filed on March 27, 2002, are duplicates of the papers filed on October 31, 2001, and that the submission of March 27, 2002, was a *bona fide* attempt to comply with the requirements to withdraw the holding of abandonment. Thus, it is submitted that all requirements to withdraw the holding of abandonment were met except the *pro forma* submission of signed, rather than unsigned, copies of the papers filed on October 31, 2001.

Thus, included with this renewed petition is a copy of each of the documents filed on October 31, 2001, as well as a copy of the Decision. In accordance with the two points raised in the Decision, each of the enclosed documents is signed, as appropriate.

Inasmuch as it is believed that the above discussion and enclosed documents clearly prove that a timely response to the Office Action was filed, and therefore the holding of abandonment was issued in error, it is requested that this petition be granted as timely filed, and that the holding of abandonment be withdraw and that prosecution be permitted to continue in the application.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



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UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

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1940 DUKE STREET
ALEXANDRIA, VA 22314

Paper No. 13

In re Application of
PERSSON, LARS
Appl. No.: 09/380,080
Filed: November 15, 1999
For: HEAT EXCHANGER WITH LEAKAGE VENT
Attorney Docket Number: 10438-0001-6 PCT

DECISION DISMISSING PETITION
37 CFR 1.181

This is a decision on the request filed March 27, 2002 to review the holding of abandonment, mailed October 23, 2001. The papers of March 27, 2002 are accepted as duplicates of papers filed October 31, 2001 due to the itemized postcard receipt stamped October 31, 2001. In view of petitioner's statements, the petition is being treated as a petition under 37 CFR 1.181. No fee is required for this petition.

The petition is dismissed.

The petition is informal as it is unsigned. The petition also states that "[i]n order to expedite prosecution, Applicants' Attorney is submitting a signed certified copy of the documents listed above." However, none of the documents have been signed.

Petitioners may file a renewed petition, without fee, addressing the points raised above. Any request for reconsideration of this decision must be submitted within TWO (2) MONTHS from the mail date of this decision, 37 CFR 1.181(f). No extensions of time under 37 CFR 1.136(a) are permitted. The reconsideration request should include a cover letter entitled "Renewed Petition under 37 CFR 1.181." Alternatively, petitioners may wish to consider filing a petition to revive under 37 CFR 1.137. The rules and MPEP sections cited may be found on the USPTO website at: www.uspto.gov.

Henry A. Bennett, Acting Director
Technology Center 3700

Dept.: E/M

OSMM&N File No. 10438-0001-6PCT By: GJM:dgh

Serial No. 09/380,080

In the matter of the Application of: Lars PERSSON

For: HEAT EXCHANGER WITH LEAKAGE VENT

The following has been received in the U.S. Patent Office on the date stamped hereon:

- ☐ pp. Specification Claims/Formal Drawings Sheets and pages Application Data Sheet
- ☐ Combined Declaration, Petition & Power of Attorney pages
- ☐ List of Inventor Names and Addresses
- ☐ Utility Patent Application Transmittal ☐ CPA
- ☐ Notice of Priority ☐ Priority Doc
- ☐ Check for ■ Dep. Acct. Order Form
- ☐ Fee Transmittal Form
- ☐ Assignment/PTO 1595 pages:
- ■ Copy of Letter Requesting Approval of Drawing Changes w/Fig. 4
- ☐ Formal Drawings sheets ☐ Formal
- ■ Letter (Cover)
- ■ Attorney Declaration
- ■ Copy of Amendment w/Marked-Up Copy ☐ PTO-1449
- ■ Request for Withdrawal of Holding of Abandonment
- ■ Copy of the date-stamped filing receipt dated April 13, 2001
- ☐ Statement of Relevancy ☐ Cited Pending Applications
- ☐ IDS/Related/List of Related Cases
- ☐ Restriction Response ☐ Election Response
- ■ Copy of the Notice of Abandonment dated October 23, 2001
- ☐ Petition for Extension of Time
- ☐ Notice of Appeal
- ☐ Brief
- ■ Copy of Fee Transmittal
- ☐ White Advance Serial Number Card
- ☐ Small Entity Status is Claimed
- ☐
- ☐

RECEIVED
MAR 2 4 2006
OFFICE OF PETITIONS

OIPE JC34
OCT 31 2001
PATENT & TRADEMARK OFFICE

Due Date: 12-23-01

COPY

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Docket No.: 10438-0001-6PCT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

RE: Application Serial No.: 09/380,080
Applicants: Lars PERSSON
Filing Date: November 15, 1999
For: HEAT EXCHANGER WITH LEAKAGE VENT
Group Art Unit: 3743
Examiner: ATKINSON, C.

SIR:

Attached hereto for filing are the following papers:

REQUEST FOR WITHDRAWAL OF HOLDING OF ABANDONMENT
ATTORNEY DECLARATION
COPY OF DATE-STAMPED FILING RECEIPT DATED APRIL 13, 2001
COPY OF AMENDMENT W/MARKED-UP COPY
COPY OF FEE TRANSMITTAL FORM
COPY OF LETTER REQUESTING APPROVAL OF DRAWING CHANGES W/FIG. 4
COPY OF NOTICE OF ABANDONMENT DATED OCTOBER 23, 2001

Our check in the amount of $0.00 is attached covering any required fees. In the event variance exists between the amount enclosed and the Patent Office charges for filing the above-not documents, including any fees required under 37 C.F.R 1.136 for any necessary Extension of Time make the filing of the attached documents timely, please charge or credit the difference to our Dep Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this s is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Gregory J. Maier
Attorney of Record
Registration No. 25,599

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TELEPHONE: 703-413-3000 ▮ FACSIMILE: 703-413-2220 ▮ WWW.OBLON.COM

Philip J. Hoffmann
Registration No. 46,340

10438-0001-6PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: :

Lars PERSSON : EXAMINER: ATKINSON, C.

SERIAL NO: 09/380,080 : GROUP ART UNIT: 3743

FILED: November 15, 1999 :

TITLE: HEAT EXCHANGER WITH LEAKAGE VENT

REQUEST FOR WITHDRAWAL OF HOLDING OF ABANDONMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Responsive to the Notice of Abandonment dated October 23, 2001, Applicants herewith request withdrawal of said abandonment for the following reasons.

An Office Action was mailed by the Patent and Trademark Office on February 13, 2001, with a shortened statutory period of 2 months, to expire on April 13, 2001.

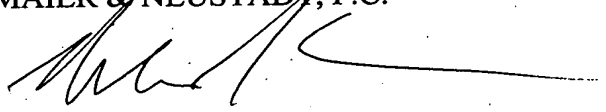
Enclosed herewith is a copy of the date-stamped filing receipt evidencing filing of an Amendment of April 13, 2001 along with a Marked-up Copy, Letter Requesting Approval of Drawing Changes w/Fig 4 and a copy of the Fee Transmittal Form. In order to expedite prosecution, Applicants' Attorney is submitting a signed, certified copy of the documents indicated above.

It is believed that the above discussion and documents enclosed herewith clearly prove that the timely response to the Office Action was filed and therefore, the holding of abandonment was issued in error.

Accordingly, it is requested the holding of abandonment be withdrawn and that prosecution be allowed to continue in the present application.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Gregory J. Maier
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GJM//dgh

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Philip J. Hoffmann
Registration No. 46,340

DOCKET NO: 167882US6PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF	:
LARS PERSSON	: EXAMINER: ATKINSON, C.
SERIAL NO: 09/380,080	:
FILED: NOVEMBER 15, 1999	: GROUP ART UNIT: 3743
FOR: HEAT EXCHANGER WITH LEAKAGE VENT	:

ATTORNEY DECLARATION

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

I, the undersigned declare the attached to be true and accurate copy of the Amendment filed on April 13, 2001.

The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Gregory J. Maier
Registration No. 25,599

Philip J. Hoffmann
Registration No. 46,340

Customer Number
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Tel: (703) 413-3000
Fax: (703) 413 -2220
(OSMMN 06/04)

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
09/380,080	11/15/99	PERSSON	L 10438-0001

QM02/1023
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT
1755 JEFFERSON DAVIS HIGHWAY
FOURTH FLOOR
ARLINGTON VA 22202

ATKINSON,C
EXAMINER

3743
ART UNIT | PAPER NUMBER

10/23/01
DATE MAILED:

Pet. to IX/D AE
12-23-01

NOTICE OF ABANDONMENT

cation is abandoned in view of:

cant's failure to timely file a proper response to the Office letter mailed on 2/13/01.

\ response (with a Certificate of Mailing or Transmission of _____) was received on _____, which is after the expiration of the period for response (including a total extension of ime of ____ month(s)) which expired on _____.

\ proposed response was received on _____, but it does not constitute a proper response to the final ejection.

A proper response to a final rejection consists only of: a timely filed amendment which places the application in ondition for allowance; a Notice of Appeal; or the filing of a continuing application under 37 CFR 1.62 (FWC).

lo response has been received.

:ant's failure to timely pay the required issue fee within the statutory period of three months from the mailing date Notice of Allowance.

he issue fee (with a Certificate of Mailing or Transmission of _____) was received on _____.

he submitted issue fee of $_____ is insufficient. The issue fee required by 37 CFR 1.18 is $_____.

ne issue fee has not been received.

:ant's failure to timely file new formal drawings as required in the Notice of Allowability.

'oposed new formal drawings (with a Certificate of Mailing or Transmission of _____ ceived on _____.

ne proposed new formal drawings filed _____ are not acceptable.

) proposed new formal drawings have been received.

xpress abandonment under 37 CFR 1.62(g) in favor of the FWC application filed on _____.

etter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire st, or all of the applicants.

etter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under R 1.34(a) upon the filing of a continuing application.

ecision by the Board of Patent Appeals and Interferences rendered on _____ and because the period eking court review of the decision has expired and there are no allowed claims.

eason(s) below:

Christopher Atkinson
CHRISTOPHER ATKINSON
PRIMARY EXAMINER

32 (REV. 10-95)

Attachment for PTO-948 (Rev. 03/01, or earlier)
6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.

Dept.: E/M

CSMM&N File No. 10438-0001-6PCT By: GJM:SNS:RLH:eac

Serial No. 09/80,080

In the matter of the Application of: LARS PERSSON

For: HEAT EXCHANGER WITH LEAKAGE VENT

The following has been received in the U.S. Patent Office on the date stamped hereon:

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- ☐ Combined Declaration, Petition & Power of Attorney pages
- ☐ List of Inventor Names and Addresses
- ☐ Utility Patent Application Transmittal
- ☐ Notice of Priority
- ☐ Check for
- ☐ Fee Transmittal Form
- ☐ Assignment/PTO 1595 pages:
- ☐ Letter to Official Draftsman
- ■ Letter Requesting Approval of Drawing Changes w/ Fig. 4
- ☐ Drawings sheets ☐ Formal
- ■ Letter/Cover
- ■ Amendment w/ Marked-Up Copy
- ☐ Information Disclosure Statement
- ☐ Cited References
- ☐ Search Report
- ☐ Statement of Relevancy
- ☐ IDS/Related/List of Related Cases
- ☐ Restriction Response
- ☐ Rule 132 Declaration
- ☐ Petition for Extension of Time
- ☐ Notice of Appeal
- ☐ Brief
- ☐ Issue Fee Transmittal
- ☐ White Advance Serial Number Card
- ☐ Small Entity Status is Claimed
- ☐
- ☐

- ☐ CPA
- ☐ Priority Doc
- ■ Dep. Acct. Order Form

- ☐ PTO-1449

- ☐ Cited Pending Applications

- ☐ Election Response

Due Date: 4/13/01

Docket No. 10438-0001-6PCT

IN RE APPLICATION OF: LARS PERSSON

SERIAL NO: 09/380,080

FILED: NOVEMBER 15, 1999

FOR: HEAT EXCHANGER WITH LEAKAGE DETECTION

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Transmitted herewith is an amendment in the above-identified application.

- ■ No additional fee is required
- □ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.
- ■ Additional documents filed herewith: Marked-Up Copy; Letter Requesting Approval of Drawing Changes w/ Fig. 4

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS	RATE	CALCULATIONS
TOTAL	20	MINUS	20	0	× $18 =	$0.00
INDEPENDENT	1	MINUS	3	0	× $80 =	$0.00
		□ MULTIPLE DEPENDENT CLAIMS			+ $270 =	$0.00
		TOTAL OF ABOVE CALCULATIONS				$0.00
		□ Reduction by 50% for filing by Small Entity				$0.00
		□ Recordation of Assignment			+ $40 =	$0.00
					TOTAL	$0.00

- □ A check in the amount of is attached.
- ■ Please charge any additional Fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- ■ If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

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10438-0001-6PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: :

LARS PERSSON : EXAMINER: ATKINSON C

SERIAL NO: 09/380,080 :

FILED: NOVEMBER 15, 1999 : GROUP ART UNIT: 3743

FOR: HEAT EXCHANGER WITH LEAKAGE VENT

AMENDMENT

COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

In response to office action dated February 13, 2001, please amend the above-identified application as follows:

IN THE SPECIFICATION

Page 3, please delete the paragraph at lines 23-34, and insert the following new paragraph:

--The present inventor has realized that the problem can be solved by means of an arrangement described hereinafter. Around each connection there is a separation zone created by a separation groove. The separation groove is preferably designed approximately like a quarter circle segment. Into the separation zone only that medium is allowed entry which flows in or out through the connection. Within the separation zone there is a blocked-off

space, which cannot be reached by any one of the media. This space is provided with a leakage vent. The leakage vent is arranged in such a way that the medium flowing through the connection flows around the hole via the grooves. Thus, this medium does not "see" the hole. Nor can the other medium, flowing in the surrounding channels, reach the hole, due to the separation groove. The leakage vent can only be reached by medium if the brazing around the connection, or at the separation groove, breaks.--

Page 5, please delete the paragraph at lines 3-12, and insert the following new paragraph:

--It will be understood that the invention depicted in the drawings and the description may be varied in several ways. The number of leakage holes 2, 7 may be higher than one in each separation zone. It is to be understood that the holes must be located in rotational symmetry, as every other plate is turned 180°. In the drawing, the holes are shown located at n angle of 45°, centered between the edges of the plates, but it is possible to locate the holes close to an edge. Arranging the holes closer to the edge may in certain cases make them more easily accessible. A person skilled in the art will furthermore understand that different types of sensors and their connections to the separation zones are possible. All such possibilities are considered to be within the scope of the invention.--

IN THE CLAIMS

Please amend claims 1-20 as shown in the attachment. A complete set of claims in clean form is shown below.

1. (Once Amended) A heat exchanger comprising:

plates having a pattern of grooves, and inlet and outlet connections, placed so as to

form a pack and brazed together so as to form separate channels for two media between alternating pairs of plates;

a separation zone having a blocked-off space formed by a barrier of valleys and peaks in contact with each other in alternate pairs of plates at a distance from the connections, a brazing at the edges of the plates and a brazing at the connections, which blocked-off space cannot be reached by any one of the media except during leakage, in such a way that the medium which is not to reach and flow through the respective connection is blocked at the barrier between one pair of plates, whereas the other medium can flow through the separation zone in adjacent channels in surrounding pairs of plates and through the respective connection; and

a leakage vent extending from the blocked-off space to the exterior.

2. (Once Amended) A heat exchanger according to claim 1, wherein the blocked-off space is formed by a separation groove, running at a distance from each connection and separating the connection towards the respective corner.

3. (Once Amended) A heat exchanger according to claim 1, wherein the leakage vent includes holes, arranged in rotational symmetry through the plates, such that the holes register when turning every other plate 180°.

4. (Once Amended) A heat exchanger according to claim 3, wherein the holes are located at an angle of 45°, centered between the edges of the plates.

5. (Once Amended) A heat exchanger according to claim 3, wherein the holes are located close to one edge of the plates.

6. (Once Amended) A heat exchanger according to claim 1, further comprising a sensor for detecting leakage located in one or more blocked-off spaces.

7. (Once Amended) A heat exchanger according to claim 1, further comprising a pipe

running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

8. (Once Amended) A heat exchanger according to claim 7, further comprising plural pipes connected to a common sensor.

9. (Once Amended) A heat exchanger according to claim 6, wherein said sensor is connected to a security system.

10. (Once Amended) A heat exchanger according to claim 2, wherein the leakage vent includes holes, arranged in rotational symmetry, through the plates, such that the holes register when turning every other plate 180°.

11. (Once Amended) A heat exchanger according to claim 2, further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

12. (Once Amended) A heat exchanger according to claim 3, further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

13. (Once Amended) A heat exchanger according to claim 4, further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

14. (Once Amended) A heat exchanger according to claim 5, further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

15. (Once Amended) A heat exchanger according to claim 2, further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

16. (Once Amended) A heat exchanger according to claim 3, further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

17. (Once Amended) A heat exchanger according to claim 4, further comprising a

pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

18. (Once Amended) A heat exchanger according to claim 5, further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

19. (Once Amended) A heat exchanger according to claim 6, further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

20. (Once Amended) A heat exchanger according to claim 7, wherein said sensor is connected to a security system.

IN THE ABSTRACT

The abstract submitted in the preliminary amendment is now submitted on a separate sheet. Entry of the new abstract is therefore respectfully requested.

REMARKS

Favorable reconsideration of this application, in view of the following comments and as presently amended, is respectfully requested.

In the outstanding Office Action, the drawings were objected to as failing to comply with 37 C.F.R. 1.83(a), for not showing some claimed features, that is the pipes, a security system, and the sensors. Accordingly, the drawings have been amended to include those features. Hence, withdrawal of the 37 C.F.R. 1.83(a) objection is respectfully requested.

Applicant has amended all the minor informalities in the specification and the claims, and no new matter has been entered by this amendment. The claims have also been amended

to use more standard language under U.S. practice.

As no other issues are pending in this application, it is respectfully submitted that the present application is now in condition for allowance, and it is hereby respectfully requested that this case be passed to issue.

Respectfully submitted,

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Marked-Up Copy
Serial No.: 09/380,080
Amendment Filed on:
April 13, 2001

IN THE SPECIFICATION

Replace Page 3, lines 23-34 with the following:

--The present inventor has [realised] realized that the problem can be solved by means of an arrangement described hereinafter. Around each connection there is a separation zone created by a separation groove. The separation groove is preferably designed approximately like a quarter circle segment. Into the separation zone only that medium is allowed entry which flows in or out through the connection. Within the separation zone there is a blocked-off space, which cannot be reached by any one of the media. This space is provided with a leakage vent. The leakage vent is arranged in such a way that the medium flowing through the connection flows around the hole via the grooves. Thus, this medium does not ["see"] "see" the hole. Nor can the other medium, flowing in the surrounding channels, reach the hole, due to the separation groove. The leakage vent can only be reached by medium if the brazing around the connection, or at the separation groove, breaks.--

Replace Page 5, lines 3-12 with the following:

--It will be understood that the invention depicted in the drawings and the description may be varied in several ways. The number of leakage holes 2, 7 may be higher than one in each separation zone. It is to be understood that the holes must be located in rotational symmetry, as every other plate is turned 180°. In the drawing, the holes are shown located at

n angle of 45°, [centred] centered between the edges of the plates, but it is possible to locate the holes close to an edge. Arranging the holes closer to the edge may in certain cases make them more easily accessible. A person skilled in the art will furthermore understand that different types of sensors and their connections to the separation zones are possible. All such possibilities are considered to be within the scope of the invention.--

IN THE CLAIMS

Please amend claims 1-20 as follows:

1. (Once Amended) A heat exchanger comprising:

plates having a pattern of grooves, and inlet and outlet connections, placed so as to form a pack and brazed together so as to form separate channels for two media between alternating pairs of plates;[, characterised by]

a separation zone having a blocked-off space formed by a barrier of valleys and peaks in contact with each other in alternate pairs of plates at a distance from the connections, [the] a brazing at the edges of the plates and [the] a brazing at the connections, which blocked-off space cannot be reached by any one of the media except during leakage, in such a way that the medium which is not to reach and flow through the respective connection is blocked at the barrier between one pair of plates, whereas the other medium can flow through the separation zone in adjacent channels in surrounding pairs of plates and [on] through the respective connection; and [by]

a leakage vent extending from the blocked-off space to the exterior.

2. (Once Amended) A heat exchanger according to claim 1, [characterised by] wherein the blocked-off space [being] is formed by a separation groove, running at a distance from each connection and separating the connection towards the respective corner.

3. (Once Amended) A heat exchanger according to claim 1, [characterised by] wherein the leakage vent [consisting of] includes holes, arranged in rotational symmetry through the plates, such that the holes register when turning every other plate 180°.

4. (Once Amended) A heat exchanger according to claim 3, [characterised by] wherein the holes [being] are located at an angle of 45°, [centred] centered between the edges of the plates.

5. (Once Amended) A heat exchanger according to claim 3, [characterised by] wherein the holes [being] are located close to one edge of the plates.

6. (Once Amended) A heat exchanger according to claim 1, [characterised by] further comprising a sensor for detecting leakage [being] located in one or more blocked-off spaces.

7. (Once Amended) A heat exchanger according to claim 1, [characterised by] further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

8. (Once Amended) A heat exchanger according to claim 7, [characterised by several] further comprising plural pipes [being] connected to a common sensor.

9. (Once Amended) A heat exchanger according to claim 6, [characterised by] wherein said [sensor(s) being] sensor is connected to a security system.

10. (Once Amended) A heat exchanger according to claim 2, [characterised by] wherein the leakage vent [consisting of] includes holes, arranged in rotational symmetry, through the plates, such that the holes register when turning every other plate 180°.

11. (Once Amended) A heat exchanger according to claim 2, [characterised by] further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

12. (Once Amended) A heat exchanger according to claim 3, [characterised by]

further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

13. (Once Amended) A heat exchanger according to claim 4, [characterised by] further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

14. (Once Amended) A heat exchanger according to claim 5, [characterised by] further comprising a sensor for detecting leakage being located in one or more blocked-off spaces.

15. (Once Amended) A heat exchanger according to claim 2, [characterised by] further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

16. (Once Amended) A heat exchanger according to claim 3, [characterised by] further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

17. (Once Amended) A heat exchanger according to claim 4, [characterised by] further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

18. (Once Amended) A heat exchanger according to claim 5, [characterised by] further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

19. (Once Amended) A heat exchanger according to claim 6, [characterised by] further comprising a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.

20. (Once Amended) A heat exchanger according to claim 7, [characterised by]

wherein said sensor [being] is connected to a security system.

ABSTRACT OF THE DISCLOSURE

A heat exchanger with a leakage vent. A fully brazed heat exchanger has an arrangement preventing the two media inside the heat exchanger from mixing in case of leakage. The heat exchanger includes plates having a pattern of grooves and inlet and outlet connections. The plates are placed in a pack and brazed together so as to form separate channels for two media between alternating pairs of plates. A separation zone is created around the connection so as so block off the medium that is not to reach the respective connection. The other medium can flow on by. A leakage vent to the exterior is provided in the separation zone so as to allow detection of any leakage.

10438-0001-6PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF:	:
LARS PERSSON	: EXAMINER: ATKINSON C
SERIAL NO: 09/380,080	:
FILED: NOVEMBER 15, 1999	: GROUP ART UNIT: 3743
FOR: HEAT EXCHANGER WITH LEAKAGE VENT	:

LETTER REQUESTING APPROVAL OF DRAWING CHANGES

COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Please review for approval the proposed changes to the Formal Drawings shown in **RED** on the attached photocopy of Figure 4.

Once these changes have been reviewed and approved by the Examiner in charge of this case, instructions for their implementation will be forwarded to an approved bonded draftsman.

Respectfully submitted,

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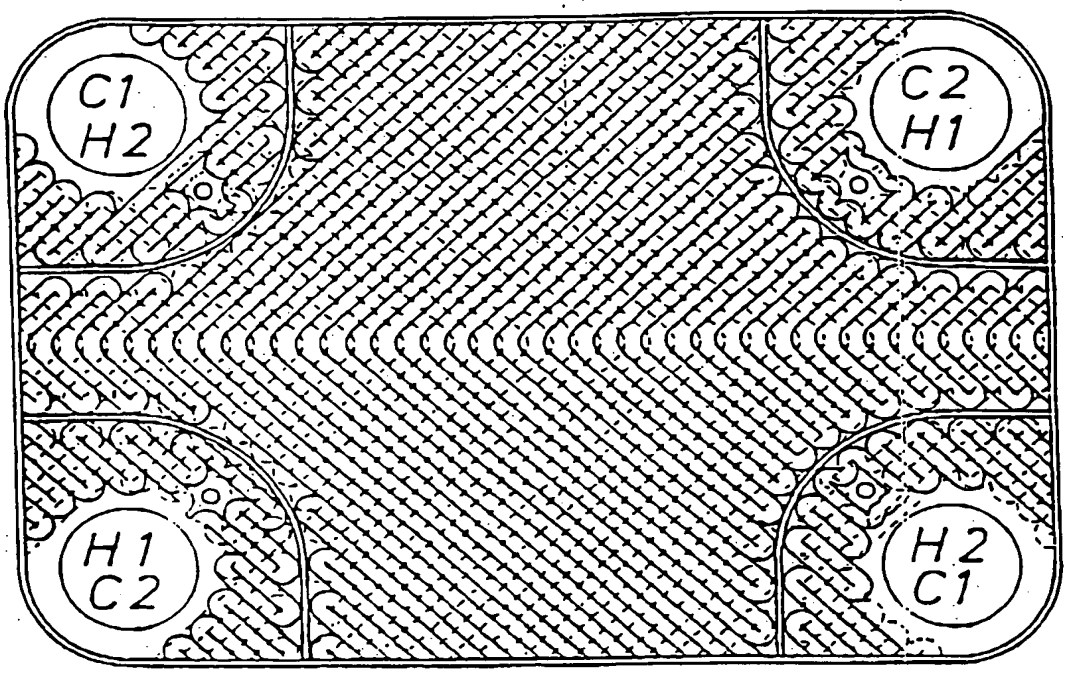

FIG. 3

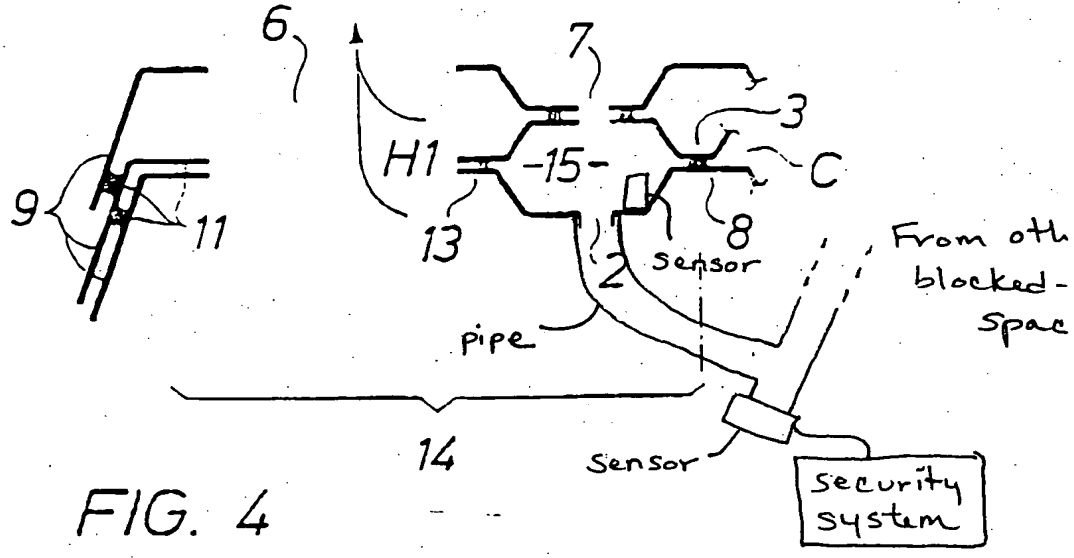

FIG. 4